C2412M (11/99)
BK700 Series Blower Kit
HK700 Series Heater Kit

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IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X ,6 or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

MODELS

Blower Kits

BK700	For use with E706 or E708 Series Enclosure, 120 VAC, 60 Hz, 4 watts, 10 cfm internal air circulation
BK700/220	Same as BK700 except 230 VAC, 50 Hz, 9 watts, 8 cfm internal air circulation
BK700/24	Same as BK700 except 24 VAC, 3 watts, 19 cfm of internal air circulation

Heater Kits

HK706-1	Thermostatically controlled, 120 VAC, 80 watts, for E706 Series Enclosure only. Activates ON at 40°F (4°C) and OFF at 60°F (16°C)
HK706-2	Same as HK706-1 except 24 VAC
HK706-3	Same as HK706-1 except 230 VAC
HK708/10-1	Thermostatically controlled, 120 VAC, 107 watts, for E708 Series Enclosure only. Activates ON at 40°F (4°C) and OFF at 60°F (16°C)
HK708/10-2	Same as HK708/10-1 except 24 VAC, 66 watts
HK708/10-3	Same as HK708/10-1 except 230 VAC, 84 watts

INSTALLATION

CAUTION: *When a single power source is used for both the camera and accessories, the camera power consumption must be taken into consideration when determining the wire gauge. However, the following chart does not include camera power because of the many variations.*

Table A. Power Requirements and Recommended Cable Sizes

Model Number	Input Voltage	Power Consumption	Cable Size	Cable Distance
BK700	120 VAC	4 watts	22 AWG 20 AWG 18 AWG 16 AWG	10,651 feet (3,246 m) 17,143 feet (5,225 m) 27,108 feet (8,262 m) 43,062 feet (13,125 m)
BK700/24	24 VAC	3 watts	20 AWG 18 AWG 16 AWG 14 AWG	914 feet (279 m) 1,446 feet (441 m) 2,297 feet (700 m) 3,650 feet (1,113 m)

Continued on next page

Table A. Power Requirements and Recommended Cable Sizes (Continued)

Model Number	Imput Voltage	Power Consumption	Cable Size	Cable Distance
BK700/200	230 VAC	9 watts	20 AWG 18 AWG 16 AWG 14 AWG	25,609 feet (7,805 m) 40,495 feet (12,342 m) 64,328 feet (19,606 m) 102,239 feet (31,161 m)
HK706-1	120 VAC	80 watts	20 AWG 18 AWG 16 AWG 14 AWG	533 feet (162 m) 857 feet (261 m) 1,355 feet (413 m) 2,153 feet (656 m)
HK706-2	24 VAC	80 watts	20 AWG 18 AWG 16 AWG 14 AWG	34 feet (10 m) 54 feet (17 m) 86 feet (26 m) 137 feet (42 m)
HK706-3	230 VAC	80 watts	20 AWG 18 AWG 16 AWG 14 AWG	2,881 feet (878 m) 4,556 feet (1,389 m) 7,237 feet (2,206 m) 11,502 feet (3,506 m)
HK708/10-1	120 VAC	107 watts	22 AWG 20 AWG 18 AWG 16 AWG	398 feet (121 m) 641 feet (195 m) 1,013 feet (3092 m) 1,6102 feet (491 m)
HK708/10-2	24 VAC	66 watts	20 AWG 18 AWG 16 AWG 14 AWG	42 feet (13 m) 66 feet (20 m) 104 feet (32 m) 166 feet (51 m)
HK708/10-3	230 VAC	84 watts	20 AWG 18 AWG 16 AWG 14 AWG	2,744 feet (836 m) 4,399 feet (1,322 m) 6,8928 feet (2,101 m) 10,954 feet (3,339 m)
Combination of BK700 & HK706-1	120 VAC	84 watts	22 AWG 20 AWG 18 AWG 16 AWG	507 feet (155 m) 816 feet (249 m) 1,291 feet (393 m) 2,051 feet (625 m)
Combination of BK700-24 & HK706-2	24 VAC	83 watts	20 AWG 18 AWG 16 AWG 14 AWG	33 feet (10 m) 52 feet (16 m) 83 feet (25 m) 132 feet (40 m)
Combination of BK700/220 & HK706-3	230 VAC	89 watts	20 AWG 18 AWG 16 AWG 14 AWG	2,590 feet (789 m) 4,095 feet (1,248 m) 6,505 feet (1,983 m) 10,339 feet (3,151 m)
Combination of BK700 & HK708/10-1	120 VAC	111 watts	22 AWG 20 AWG 18 AWG 16 AWG	384 feet (117 m) 618 feet (188 m) 977 feet (298 m) 1,552 feet (473 m)
Combination of BK700/24 & HK708/10-2	24 VAC	69 watts	20 AWG 18 AWG 16 AWG 14 AWG	40 feet (12 m) 63 feet (19 m) 100 feet (30 m) 159 feet (48 m)
Combination of BK700/220 & HK708/10-3	230 VAC	93 watts	20 AWG 18 AWG 16 AWG 14 AWG	2,748 feet (755 m) 3,919 feet (1,194 m) 6,225 feet (1,897 m) 9,894 feet (3,016 m)

Blower Kit

If you are istalling the blower kit in conjunction with a heater kit, skip this section and refer to *Blower and Heater Kits (Dual Installation)*.

To install a blower kit, perform the following steps:

1. Attach the blower assembly onto the brackets at the rear of the camera sled using the hardware provided (see Figure 1).

2. Wire as shown in Figure 2. Refer to Table A for recommended cable sizes.

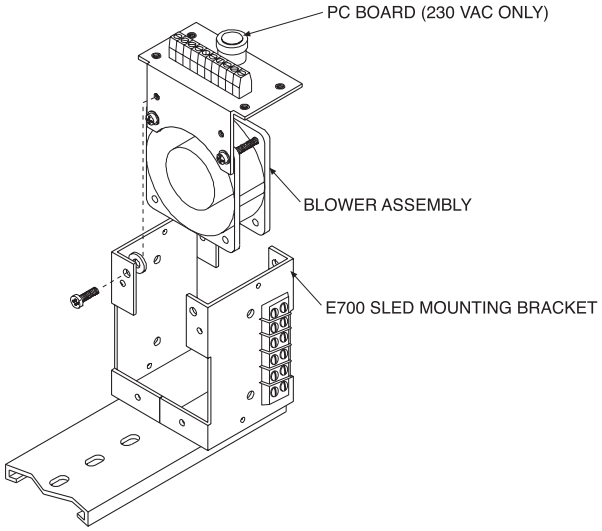

Figure 1. Blower Kit Installation

Heater Kit

If you are installing the heater kit in conjunction with a blower kit, skip this section and refer to *Blower and Heater Kits (Dual Installation).*

Perform the following steps to complete the heater kit installation:

1. Attach the PC board assembly onto the brackets that are attached to the rear of the camera sled (refer to Figure 3).
2. Attach the heater assembly onto the front of the camera sled (refer to Figure 3).
3. Route the wiring from the heater assembly along the side of the camera sled.
4. Wire power to the PC board. Refer to Figure 4 and Table A.

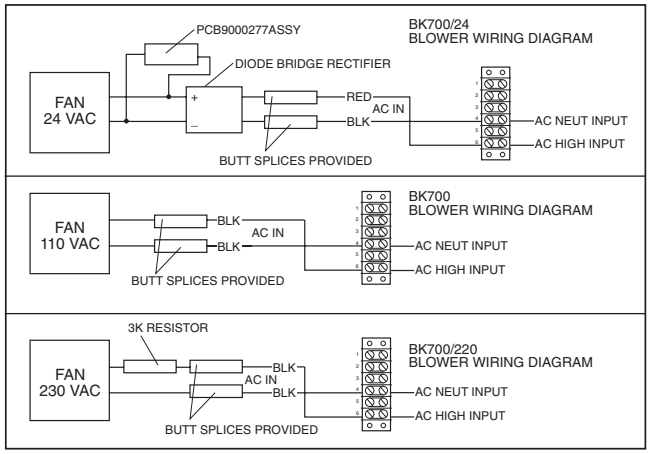

Figure 2. Blower Kit Wiring Diagram

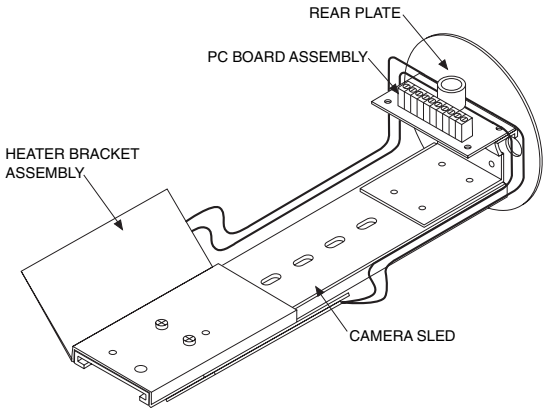

Figure 3. Heater Kit Installation

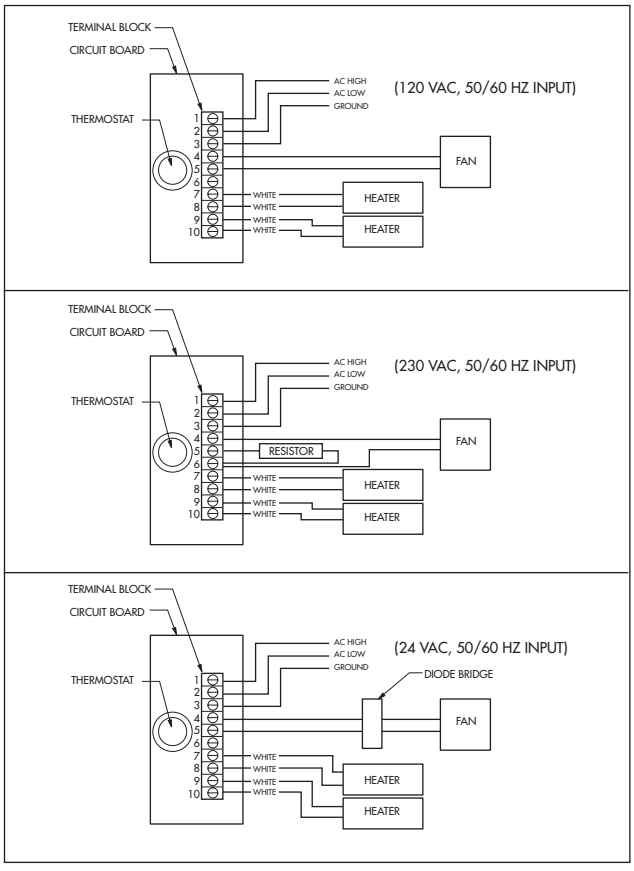

Figure 4. Blower and Heater Kits Wiring Diagram (All Models)

Blower and Heater Kits (Dual Installation)

1. a. **BK700 and BK700/24** - Remove the PC board from the heater assembly. Attach board to the top bracket of the blower assembly.

   b. **BK700/220** - The blower and heater assemblies are both factory assembled with a PC board. Only one PC board assembly is required. Remove the PC board from the blower assembly and replace it with the PC board from the heater assembly.

2. Attach the PC board and blower assembly onto the brackets that are attached to the rear of the camera sled (refer to Figure 1).

3. Attach the heater assembly onto the front of the camera sled (refer to Figure 3).

4. Route the wiring from the heater assembly along the side of the camera sled.

5. Wire the fan and power to the PC board. Refer to Figure 4 and Table A.

SERVICE MANUAL

If you need to order replacement parts, obtain a service manual in one of the following ways:
- Go to Pelco's web site at www.pelco.com and find service manual C2412SM.
- Contact Pelco's Literature Department and request service manual C2412SM.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933

REVISION HISTORY

Manual #	Date	Comments
C2412M	11/99	Original version.

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